Princeton Plasma Physics Laboratory (PPPL)

Site Description: The Princeton Plasma Physics Laboratory (PPPL) is a single-purpose laboratory located on 88 acres of the Princeton University's James Forrestal Campus in Princeton, New Jersey. PPPL is the only Department of Energy (DOE) laboratory devoted primarily to plasma and fusion science.

Mission: PPPL's mission is the advancement of plasma science, fusion science, and fusion technology, which are needed for the development of fusion energy as a safe, economical, and environmentally attractive method of generating electricity.

Management: The Office of Science (SC) is the lead program secretarial office. The Office of Fusion Energy Sciences (SC-50) provides nearly all of the funding for operating the facility. The DOE Princeton Group (PG) manages PPPL's contract activities through the Chicago Operations Office (CH). The management and operating contractor is the Trustees of Princeton University. There are approximately 390 full time PPPL employees and 12 Princeton Group employees.

Budget: The annual budget for FY 2000 is $60 million.

Integrated Safety Management (ISM) Implementation Status: In May 1998, PPPL submitted the ISM description required by DOE contract to CH for DOE review and approval. CH performed the validation and verification of the PPPL ISM program June 22 to 30, 1999. This included both Phase I, validating the scope of the site's integrated safety management system (ISMS) and implementation procedures, and Phase II, verifying the site's ISM implementation practices. The CH Manager confirmed the successful implementation of the PPPL ISMS on July 19, 1999.

Significant Events: No significant environment, safety, and health related events have been reported for PPPL over the past two years.

Key Facilities

Facility Name	Mission /Status	Principal Hazards
National Spherical Torus Experiment (NSTX)	The NSTX research program covers a broad range of fusion and plasma science topics. The facility is operating.	Electrical, radiological, cryogenic, and chemical.
Tokamak Fusion Test Reactor (TFTR)	Fusion with deuterium-tritium fuel mixture for experiments designed to produce 10-25 megawatts of fusion power. Shut down since April 1997. Decontamination and decommissioning (D&D) of TFTR began in October 1999.	Radiological, exposure to tritium, and hazards associated with D&D operations (such as working with heavy machinery and electrical hazards).

For the PG Manager's Office, contact (609) 243-3706